

Mitsuo TAKAHASHI et al
OPTICAL ATTENUATOR

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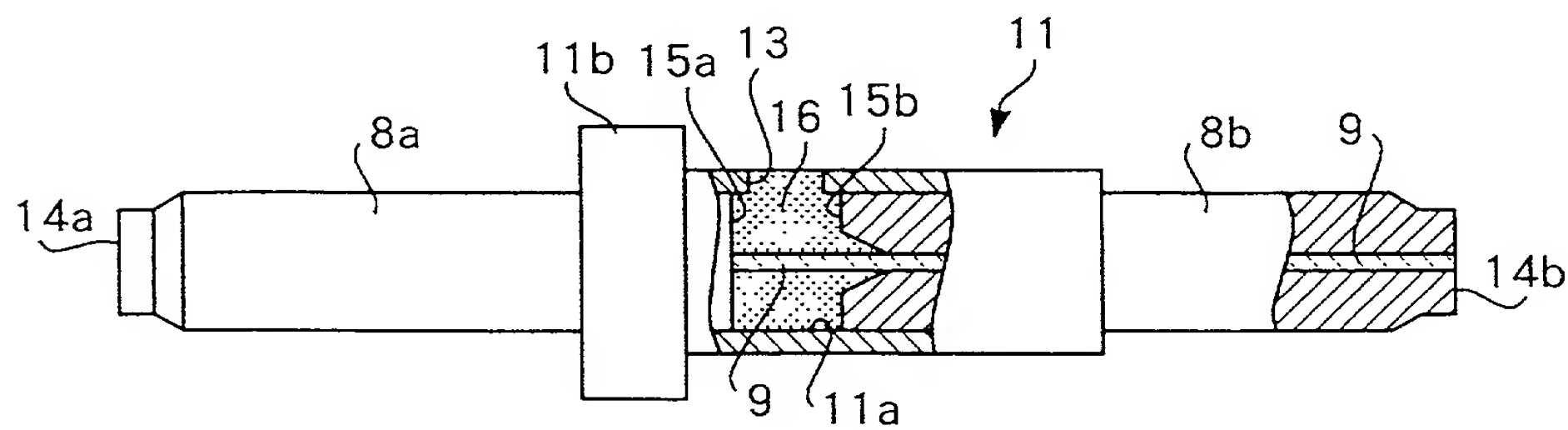
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FIG. 4

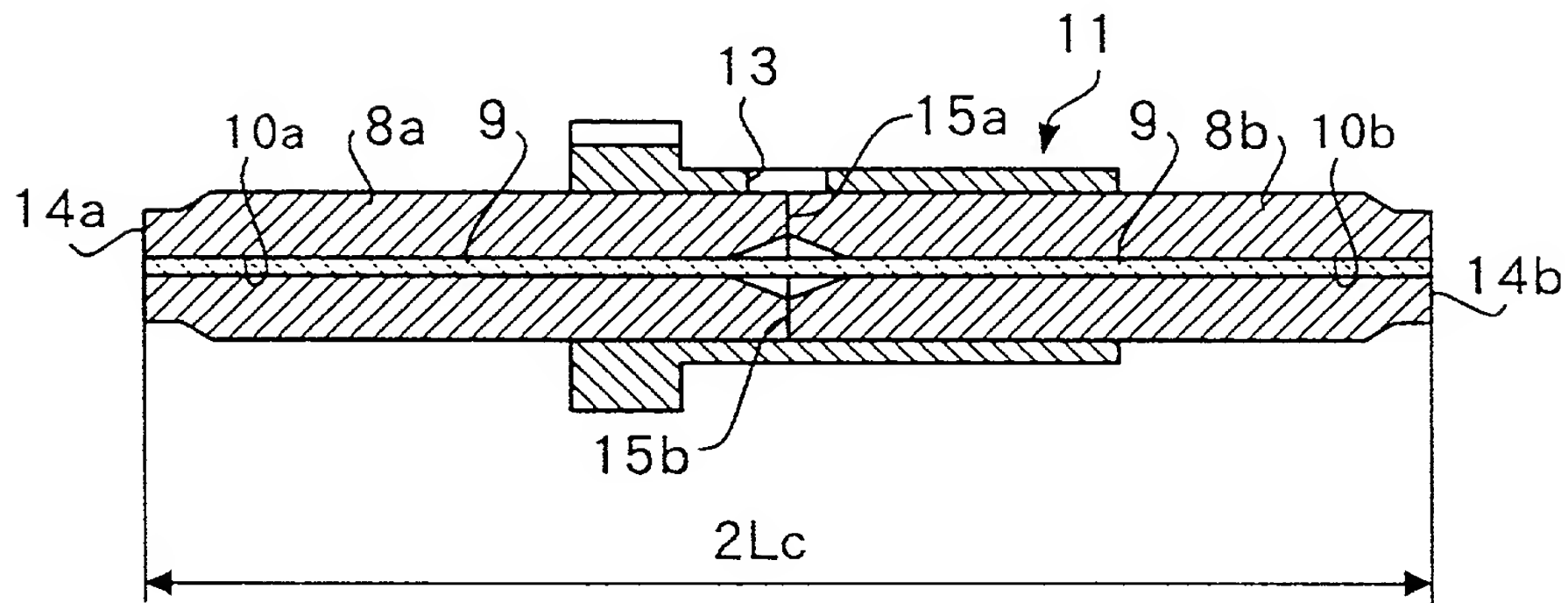
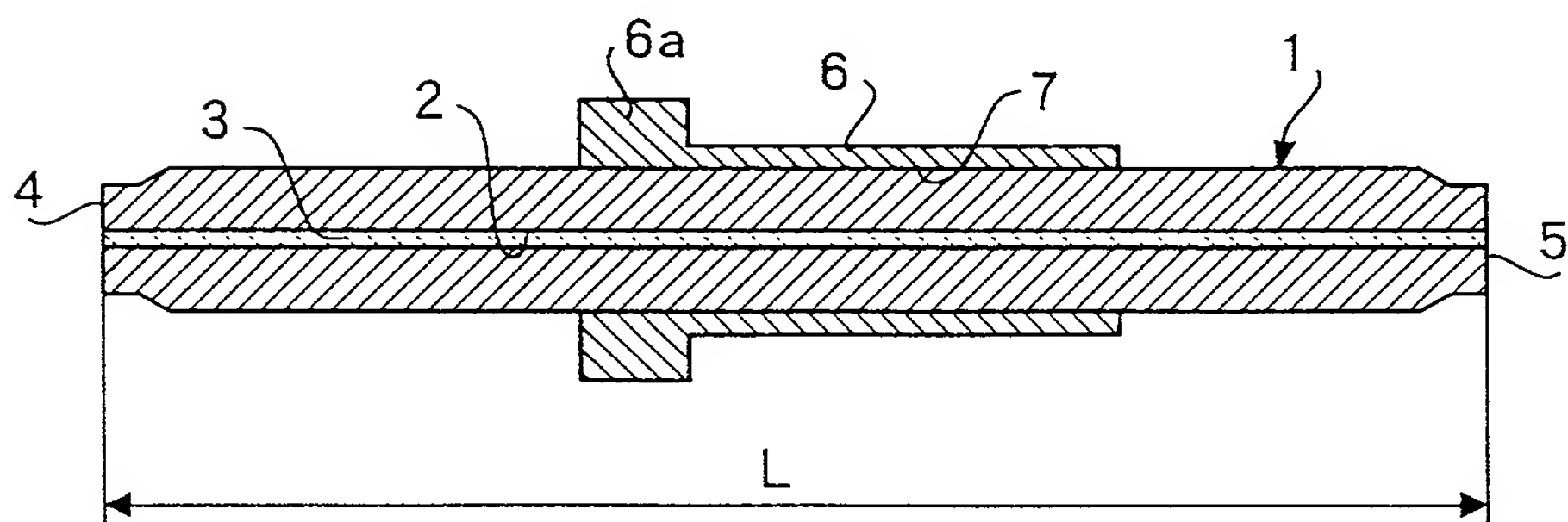


FIG. 6



(PRIOR ART)

FIG. 5

Test items	Test conditions	Criteria	1st Embodiment	2nd Embodiment	3rd Embodiment
Environmental characteristics		1 to 10 dB			
Hot shelving	at 85°C for 240 hours	$\leq \pm 0.5$ dB	A	A	A
Cold shelving	at -40°C for 240 hours	$\leq \pm 0.5$ dB	A	A	A
Shelving in humidity	at 90% at 40°C for 240 hours	$\leq \pm 0.5$ dB	A	A	A
Shelving in humidity at temperature varying in a range	-10°C to 60°C	$\leq \pm 0.5$ dB	A	A	A
Humidity cycle test	14 cycles each at humidity varying from 0% to 90%	$\leq \pm 0.5$ dB	A	A	A
Heat cycle test	21 cycles each at temperature varying from -40°C to 85°C	$\leq \pm 0.5$ dB	A	A	A
Mechanical characteristics		$\leq \pm 0.5$ dB	A	A	A
Fall down test	5 cycles each in 3 directions from 1.8-meter high, 8 times in each direction	no disconnection	B (2/20 unsatisfactory)	A	C (20/20 unsatisfactory)
Vibration test	20 cycles each at frequency varying from 10 to 50 Hz (Amplitude: 1.52 mm)	no disconnection	A	A	B (2/20 unsatisfactory)